

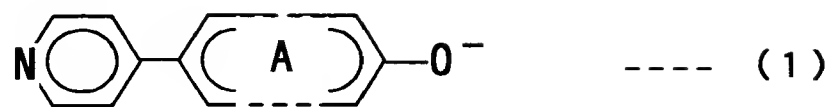
# **Appendix B**

## **Chemical Formulas 1-20**

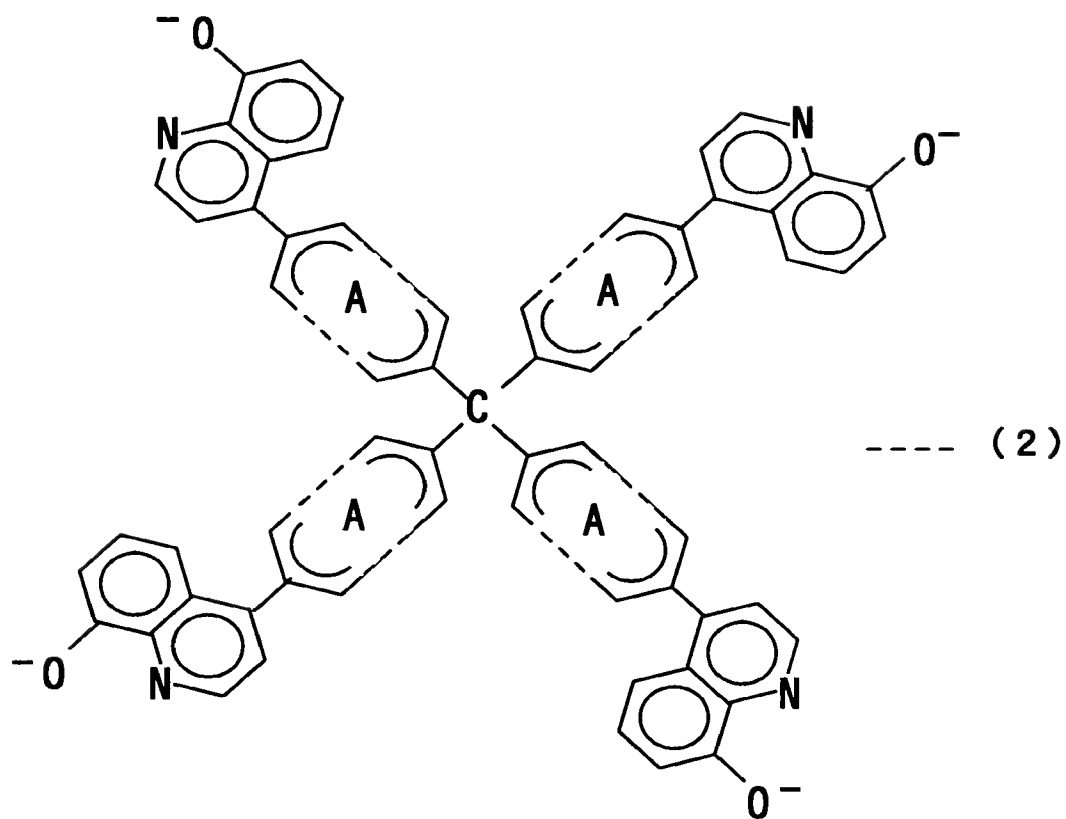
**(9 pages)**

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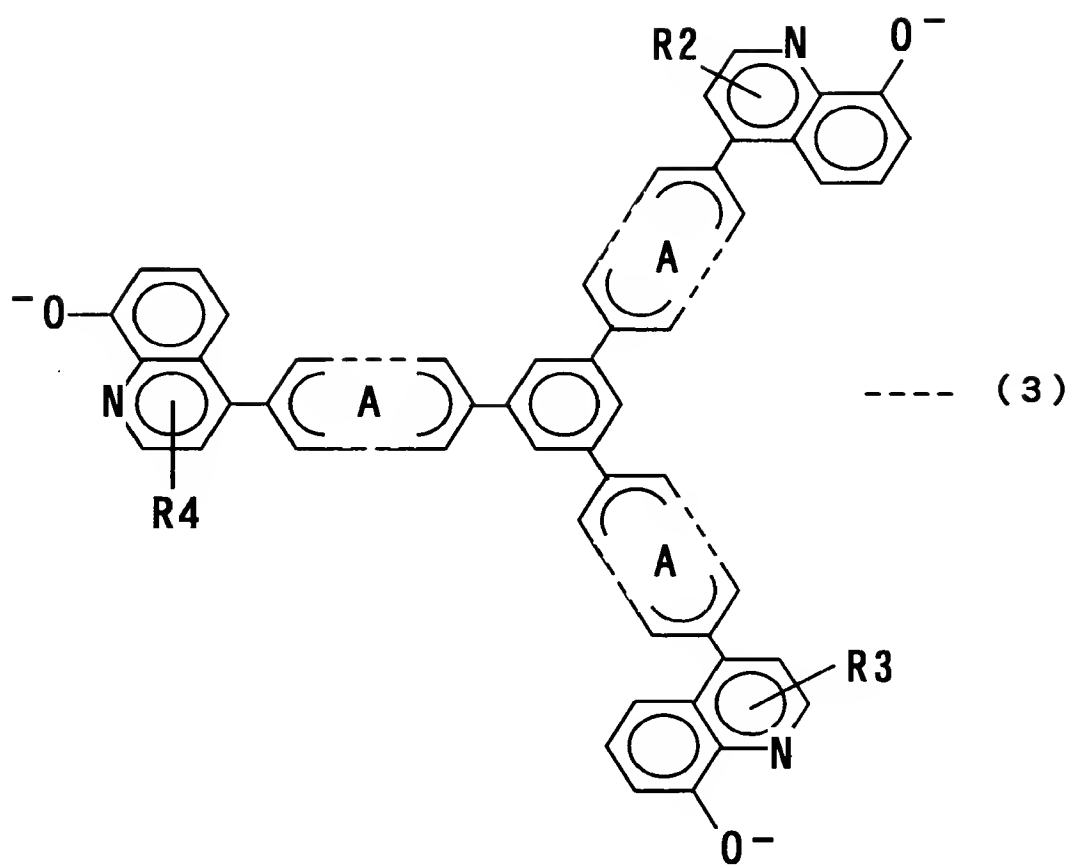
[Chemical Formula 5]



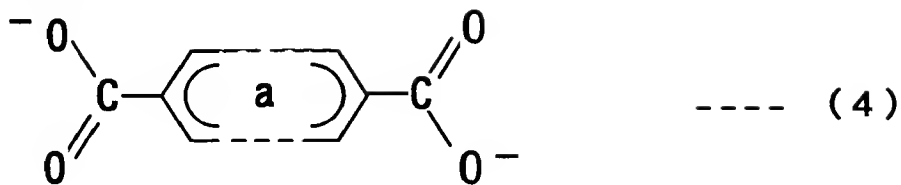
[Chemical Formula 6]



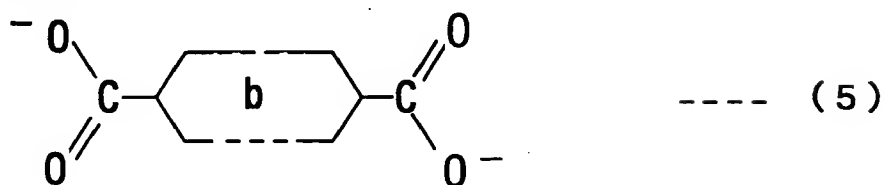
[Chemical Formula 7]



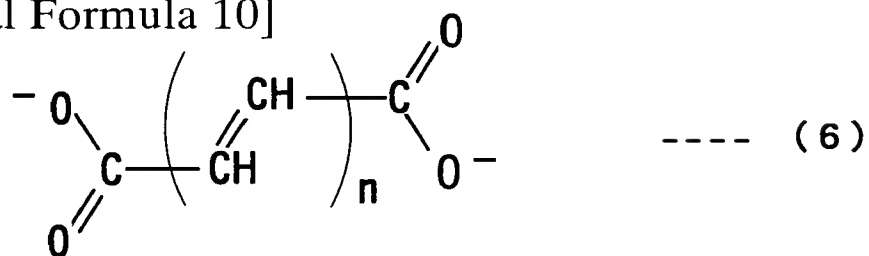
[Chemical Formula 8]



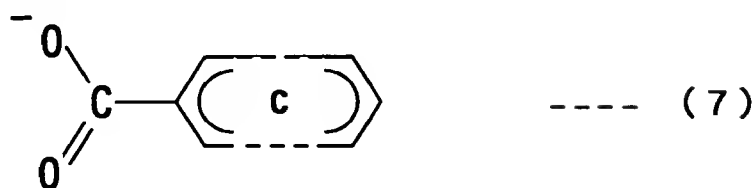
[Chemical Formula 9]



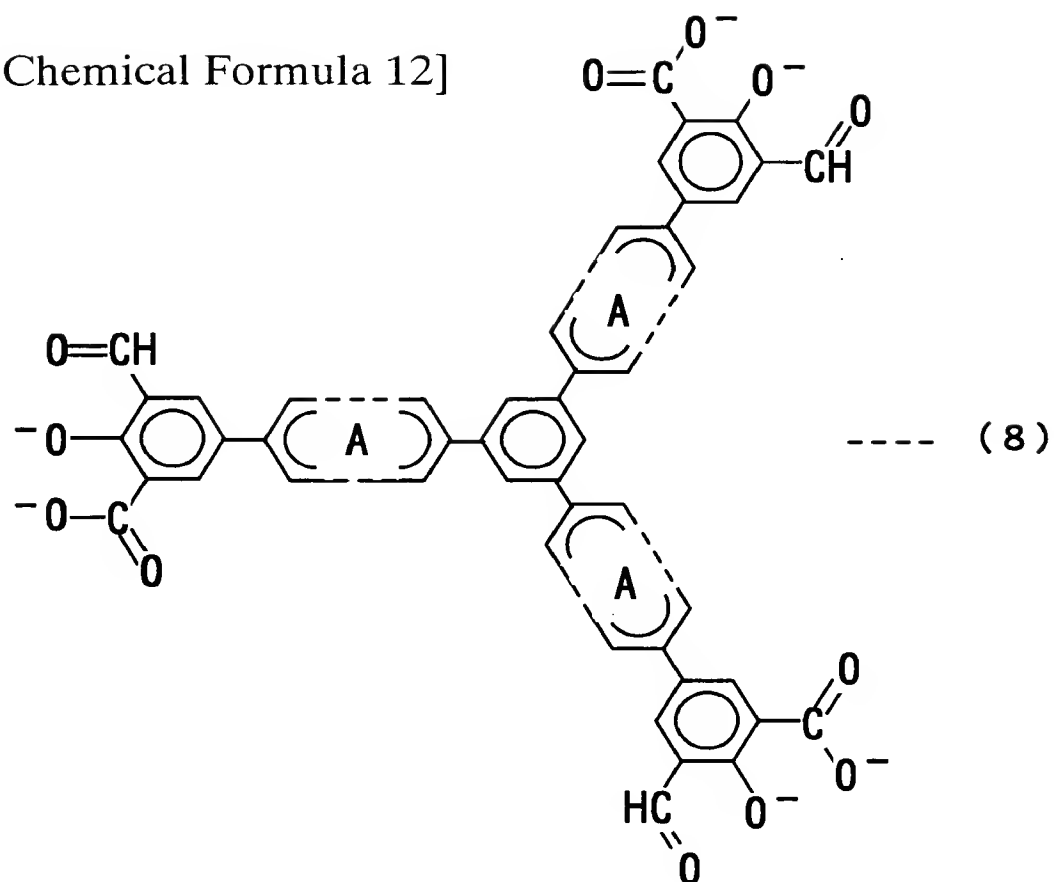
[Chemical Formula 10]



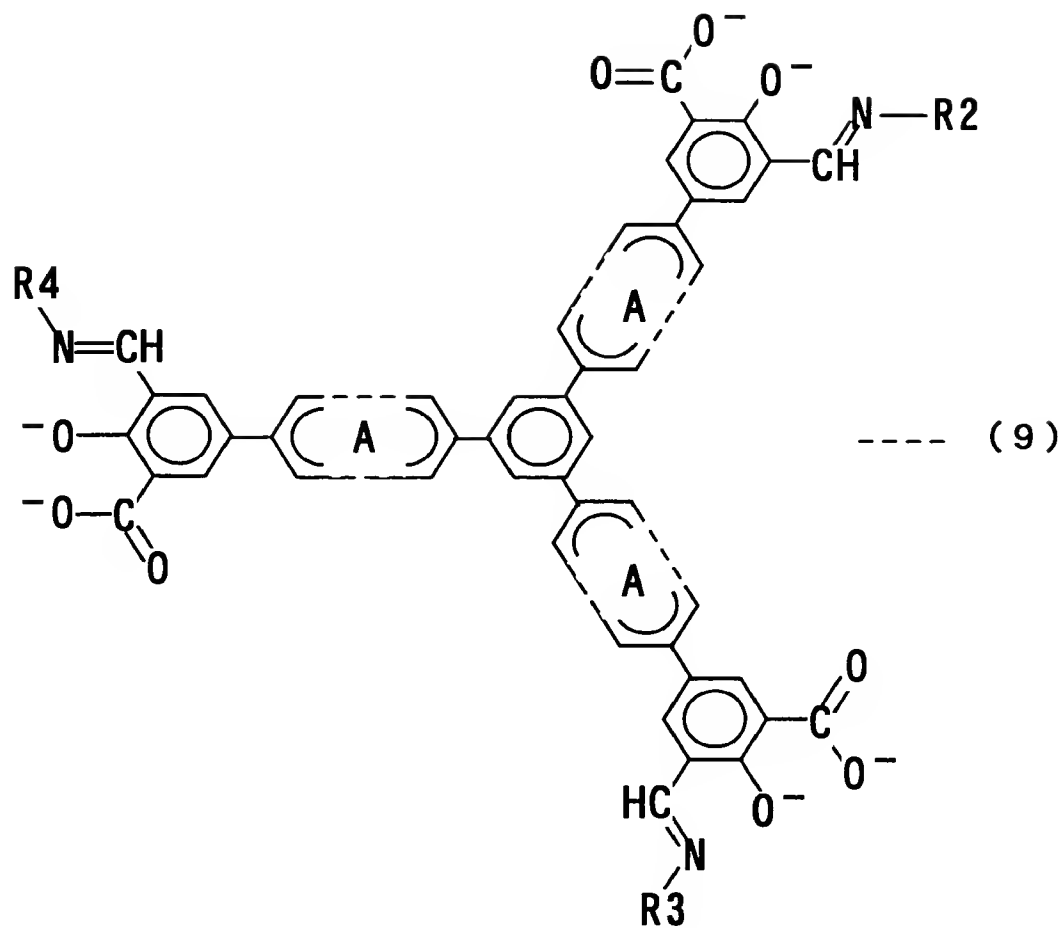
[Chemical Formula 11]



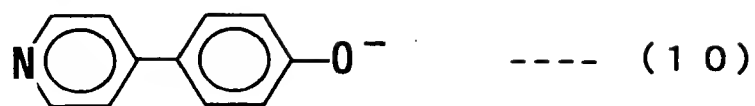
[Chemical Formula 12]



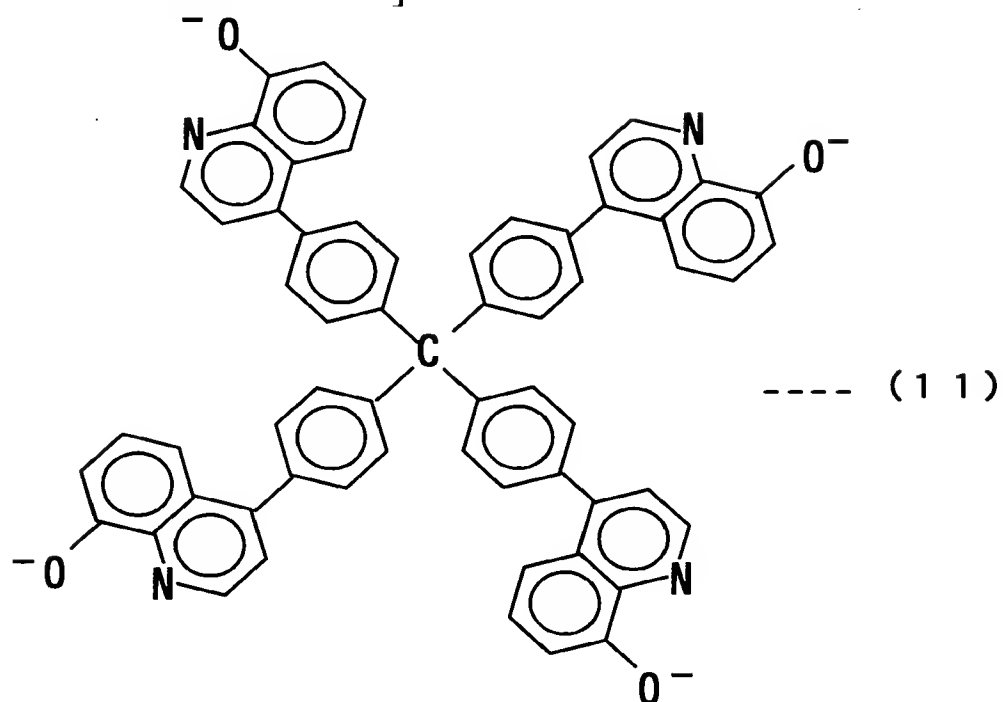
[Chemical Formula 13]



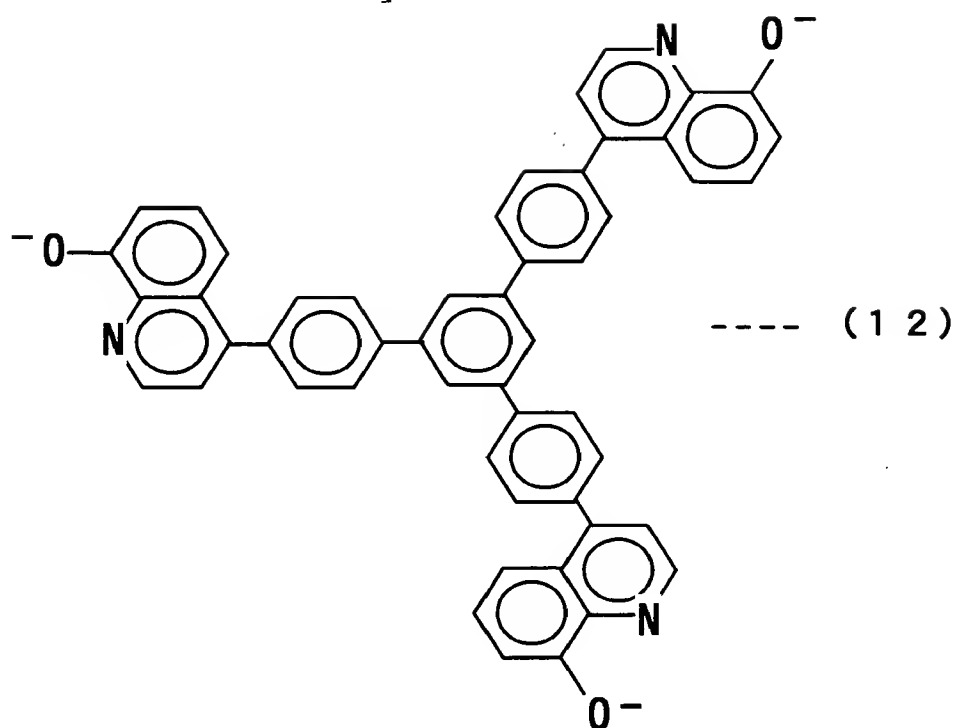
[Chemical Formula 14]



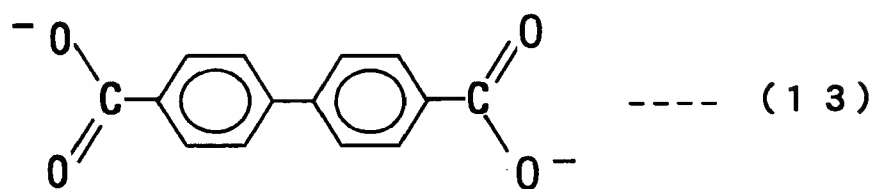
[Chemical Formula 15]



[Chemical Formula 16]

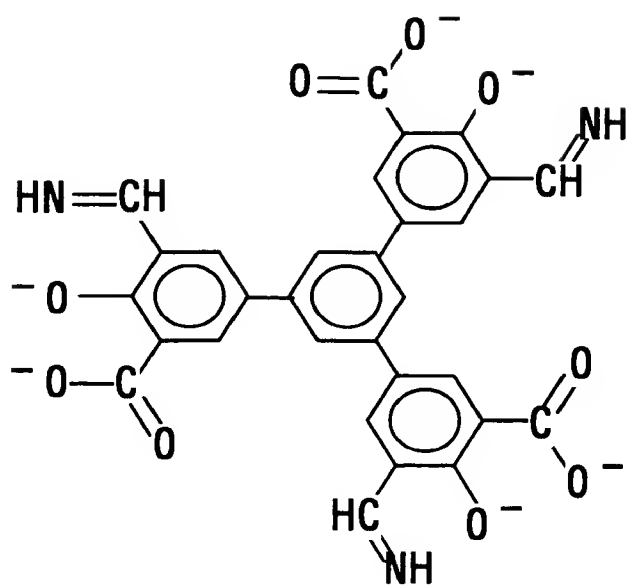


[Chemical Formula 17]



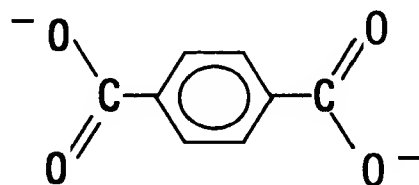


[Chemical Formula 18]



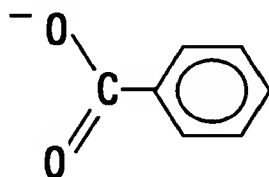
----- ( 1 4 )

[Chemical Formula 19]



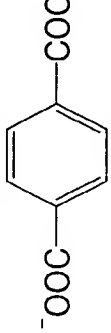
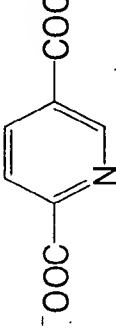
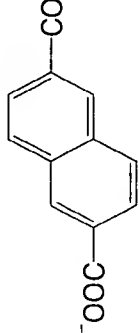

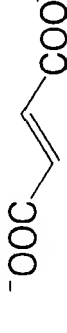
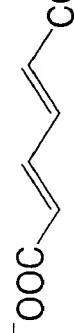
----- ( 1 5 )

[Chemical Formula 20]



----- ( 1 6 )

Table 1

No.	classification	substituent	structural formula
No.1	general formula (4)	a $\rightarrow$ paraphenylene group	
No.2	general formula (4)	a $\rightarrow$ 2, 5-pyridylene group	
No.3	general formula (4)	a $\rightarrow$ 2, 6-naphthylene group	
No.4	general formula (5)	b $\rightarrow$ 1, 4-cyclohexylene group	
No.5	general formula (6)	n = 1	
No.6	general formula (6)	n = 2	
No.7	general formula (7)	c $\rightarrow$ phenyl	